

## PATENT COOPERATION TREATY

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2176

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION  
(PCT Rule 61.2)

To:

Assistant Commissioner for Patents  
 United States Patent and Trademark  
 Office  
 Box PCT  
 Washington, D.C.20231  
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 23 August 2000 (23.08.00)	To: Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231 ETATS-UNIS D'AMERIQUE  in its capacity as elected Office
International application No. PCT/SG98/00096	Applicant's or agent's file reference
International filing date (day/month/year) 27 November 1998 (27.11.98)	Priority date (day/month/year)
Applicant SINGH, Gurminder et al	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

26 June 2000 (26.06.00)

in a notice effecting later election filed with the International Bureau on:

2. The election  was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.: (41-22) 740.14.35	Authorized officer Pascal Piriou  Telephone No.: (41-22) 338.83.38
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From the RECEIVING OFFICE

To:

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0 JUL 1999  
PCT

M/s Spruson & Ferguson Pte Ltd  
51 Bras Basah Road  
#02-03 Plaza By The Park  
Singapore 189554

NOTIFICATION OF THE INTERNATIONAL  
APPLICATION NUMBER AND OF THE  
INTERNATIONAL FILING DATE

(PCT Rule 20.5(c))

Date of mailing  
(day/month/year)

22 DEC 1998

## Applicant's or agent's file reference

## IMPORTANT NOTIFICATION

International application No.  
PCT/SG98/00096International filing date (day/month/year)  
27 NOVEMBER 1998 (27.11.98)

Priority date (day/month/year)

Applicant KENT RIDGE DIGITAL LABS

Title of the invention Method and apparatus for content-linking supplemental information with time-sequence data.

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.

2. The applicant is further notified that the record copy of the international application:



was transmitted to the International Bureau on

22 DEC 1998



has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau\*:



because the necessary national security clearance has not yet been obtained.



because (reason to be specified):

\* The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).

Name and mailing address of the receiving Office

Registry of Patents  
51 Bras Basah Road #04-01  
Plaza By The Park

Facsimile No.

Singapore 0718

Form PCT/RO/105 (July 1992) Fax No: 339-0252  
Tel No: 330-2751

Authorized officer

Telephone No.

MDM MISLIA BTE BUKHON  
Registry of Patents  
Tel: 330-2751

EE784.09967.2.US

PCT

0 JUL 1999

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference  
(if desired) (12 characters maximum)

## Box No. I TITLE OF INVENTION

METHOD AND APPARATUS FOR CONTENT-LINKING SUPPLEMENTAL INFORMATION WITH TIME-SEQUENCE DATA

## Box No. II APPLICANT

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

KENT RIDGE DIGITAL LABS  
21 HENG MUI KENG TERRACE  
SINGAPORE 119613  
REPUBLIC OF SINGAPORE

 This person is also inventor.

Telephone No.

+65 874 7588

Facsimile No.

Teleprinter No.

State (that is, country) of nationality:  
SINGAPORE (SG)State (that is, country) of residence:  
SINGAPORE (SG)

This person is applicant for the purposes of:  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

## Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

SINGH, Gurinder  
BLOCK B, KENTVALE  
#03-08  
SINGAPORE 129789  
REPUBLIC OF SINGAPORE

This person is:

 applicant only applicant and inventor inventor only (if this check-box is marked do not fill in below.)State (that is, country) of nationality:  
INDIAState (that is, country) of residence:  
SINGAPORE (SG)

This person is applicant for the purposes of:  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

 Further applicants and/or (further) inventors are indicated on a continuation sheet.

## Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

 agent common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

SPRUSON & FERGUSON PTE LTD  
51 BRAS BASAH ROAD  
#02-03 PLAZA BY THE PARK  
SINGAPORE 189554  
REPUBLIC OF SINGAPORE

Telephone No.

+65 336 9715

Facsimile No.

+65 336 9716

Teleprinter No.

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No.

## FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

VASUDEVAN, VINOD VIJAYALEKSHMI  
HONG LEONG GARDEN CONDOMINIUM  
BLOCK 75, WEST COAST DRIVE, #03-01  
SINGAPORE 127992

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

INDIA

State (that is, country) of residence:

SINGAPORE (SG)

This person is applicant for the purposes of:  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on another continuation sheet.

## Box No.V DESIGNATION OF STATES

The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):

## Regional Patent

AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT

EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT

EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT

OA OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)

National Patent (if other kind of protection or treatment desired, specify on dotted line):

<input checked="" type="checkbox"/> AL Albania .....	<input checked="" type="checkbox"/> LS Lesotho .....
<input checked="" type="checkbox"/> AM Armenia .....	<input checked="" type="checkbox"/> LT Lithuania .....
<input checked="" type="checkbox"/> AT Austria .....	<input checked="" type="checkbox"/> LU Luxembourg .....
<input checked="" type="checkbox"/> AU Australia .....	<input checked="" type="checkbox"/> LV Latvia .....
<input checked="" type="checkbox"/> AZ Azerbaijan .....	<input checked="" type="checkbox"/> MD Republic of Moldova .....
<input checked="" type="checkbox"/> BA Bosnia and Herzegovina .....	<input checked="" type="checkbox"/> MG Madagascar .....
<input checked="" type="checkbox"/> BB Barbados .....	<input checked="" type="checkbox"/> MK The former Yugoslav Republic of Macedonia .....
<input checked="" type="checkbox"/> BG Bulgaria .....	<input checked="" type="checkbox"/> MN Mongolia .....
<input checked="" type="checkbox"/> BR Brazil .....	<input checked="" type="checkbox"/> MW Malawi .....
<input checked="" type="checkbox"/> BY Belarus .....	<input checked="" type="checkbox"/> MX Mexico .....
<input checked="" type="checkbox"/> CA Canada .....	<input checked="" type="checkbox"/> NO Norway .....
<input checked="" type="checkbox"/> CH and LI Switzerland and Liechtenstein .....	<input checked="" type="checkbox"/> NZ New Zealand .....
<input checked="" type="checkbox"/> CN China .....	<input checked="" type="checkbox"/> PL Poland .....
<input checked="" type="checkbox"/> CU Cuba .....	<input checked="" type="checkbox"/> PT Portugal .....
<input checked="" type="checkbox"/> CZ Czech Republic .....	<input checked="" type="checkbox"/> RO Romania .....
<input checked="" type="checkbox"/> DE Germany .....	<input checked="" type="checkbox"/> RU Russian Federation .....
<input checked="" type="checkbox"/> DK Denmark .....	<input checked="" type="checkbox"/> SD Sudan .....
<input checked="" type="checkbox"/> EE Estonia .....	<input checked="" type="checkbox"/> SE Sweden .....
<input checked="" type="checkbox"/> ES Spain .....	<input checked="" type="checkbox"/> SG Singapore .....
<input checked="" type="checkbox"/> FI Finland .....	<input checked="" type="checkbox"/> SI Slovenia .....
<input checked="" type="checkbox"/> GB United Kingdom .....	<input checked="" type="checkbox"/> SK Slovakia .....
<input checked="" type="checkbox"/> GE Georgia .....	<input checked="" type="checkbox"/> SL Sierra Leone .....
<input checked="" type="checkbox"/> GH Ghana .....	<input checked="" type="checkbox"/> TJ Tajikistan .....
<input checked="" type="checkbox"/> GM Gambia .....	<input checked="" type="checkbox"/> TM Turkmenistan .....
<input checked="" type="checkbox"/> GW Guinea-Bissau .....	<input checked="" type="checkbox"/> TR Turkey .....
<input checked="" type="checkbox"/> HR Croatia .....	<input checked="" type="checkbox"/> TT Trinidad and Tobago .....
<input checked="" type="checkbox"/> HU Hungary .....	<input checked="" type="checkbox"/> UA Ukraine .....
<input checked="" type="checkbox"/> ID Indonesia .....	<input checked="" type="checkbox"/> UG Uganda .....
<input checked="" type="checkbox"/> IL Israel .....	<input checked="" type="checkbox"/> US United States of America .....
<input checked="" type="checkbox"/> IS Iceland .....	<input checked="" type="checkbox"/> UZ Uzbekistan .....
<input checked="" type="checkbox"/> JP Japan .....	<input checked="" type="checkbox"/> VN Viet Nam .....
<input checked="" type="checkbox"/> KE Kenya .....	<input checked="" type="checkbox"/> YU Yugoslavia .....
<input checked="" type="checkbox"/> KG Kyrgyzstan .....	<input checked="" type="checkbox"/> ZW Zimbabwe .....
<input checked="" type="checkbox"/> KP Democratic People's Republic of Korea .....	
<input checked="" type="checkbox"/> KR Republic of Korea .....	
<input checked="" type="checkbox"/> KZ Kazakhstan .....	
<input checked="" type="checkbox"/> LC Saint Lucia .....	
<input checked="" type="checkbox"/> LK Sri Lanka .....	
<input checked="" type="checkbox"/> LR Liberia .....	
	<input checked="" type="checkbox"/> CY Cyprus .....
	<input checked="" type="checkbox"/> GD Grenada .....

Check-boxes reserved for designating States (for the purposes of a national patent) which have become party to the PCT after issuance of this sheet

**Precautionary Designation Statement:** In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

## Box No. VI PRIORITY CLAIM

 Further priority claims are indicated in the Supplemental Box.

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country	regional application: regional Office	international application: receiving Office
item (1)				
item (2)				
item (3)				

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s):

\* Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box.

## Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA)  
(if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / AT

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)      Number      Country (or regional Office)

## Box No. VIII CHECK LIST; LANGUAGE OF FILING

This international application contains the following number of sheets:

request	:	4
description (excluding sequence listing part)	:	20
claims	:	13
abstract	:	1
drawings	:	12
sequence listing part of description	:	0
Total number of sheets		50

This international application is accompanied by the item(s) marked below:

1.  fee calculation sheet
2.  separate signed power of attorney
3.  copy of general power of attorney; reference number, if any:
4.  statement explaining lack of signature
5.  priority document(s) identified in Box No. VI as item(s):
6.  translation of international application into (language):
7.  separate indications concerning deposited microorganism or other biological material
8.  nucleotide and/or amino acid sequence listing in computer readable form
9.  other (specify):

Figure of the drawings which should accompany the abstract:

2

Language of filing of the international application: ENGLISH

## Box No. IX SIGNATURE OF APPLICANT OR AGENT

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

SPRUSON &amp; FERGUSON PTE LTD



SCOTT D BERGGREN  
MANAGER  
SPRUSON & FERGUSON PTE LTD

For receiving Office use only

1. Date of actual receipt of the purported international application:	2. Drawings:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:	<input type="checkbox"/> received: <input type="checkbox"/> not received:
4. Date of timely receipt of the required corrections under PCT Article 11(2):	
5. International Searching Authority (if two or more are competent): ISA /	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid.

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

091341347

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**PATENT COOPERATION TREATY**  
**PCT**

REC'D 15 JUN 2001

WIPO

PCT

**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. <b>PCT/SG 98/00096</b>	International filing date (day/month/year) <b>27 November 1998 (27.11.1998)</b>	Priority Date (day/month/year)

International Patent Classification (IPC) or national classification and IPC

IPC<sup>7</sup>: G06F 13/60, H04N 7/08, H04N 5/50

## Applicant

Kent Ridge Digital Labs et al.

1. This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.

This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 8 sheets.

3. This report contains indications relating to the following items:

- I.  Basis of the opinion
- II.  Priority
- III.  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV.  Lack of unity of invention
- V.  Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI.  Certain documents cited
- VII.  Certain defects in the international application
- VIII.  Certain observations on the international application

Date of submission of the demand  <b>26 June 2000 (26.06.2000)</b>	Date of completion of this report  <b>7 May 2001 (07.05.2001)</b>
Name and mailing address of the IPEA/AT  Austrian Patent Office Kohlmarkt 8-10 A-1014 Vienna Facsimile No. 1/53424/200	Authorized officer  <b>WERNER</b> Telephone No. 1/53424/357

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG 98/00096

**I. Basis of the report**

1. With regard to the **elements** of the international application:\*

the international application as originally filed

the description:  
pages 1-20, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

the claims:  
pages no. 1-22, 78-84, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement) under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages no. 23-77, dated, filed with the letter of 4 March 1999 (04.03.1999).

the drawings:  
pages 1-12, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_.

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  
 the language of publication of the international application (under Rule 48.3(b)).  
 the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

contained in the international application in printed form.  
 filed together with the international application in computer readable form.  
 furnished subsequently to this Authority in written form.  
 furnished subsequently to this Authority in computer readable form.  
 The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.  
 The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4.  The amendments have resulted in the cancellation of:

the description, pages \_\_\_\_\_.  
 the claims, Nos. \_\_\_\_\_.  
 the drawings, sheets/fig \_\_\_\_\_.

5.  This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as „originally filed“ and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.  
Form PCT/IPEA/409 (Box I) (July 1998))

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/SG 98/00096

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement		
Novelty (N)	Claims 3,4,8,9,14,15,18-20,23,24,27- 30,33,35,38,39,42,44-48, 50-55,57,58,60-68,70-75	YES
	Claims 1,2,5-7,10- 13,16,17,21,22,25,26,31,32,36,37,40,41,43,49,56,5	NO
Inventive step (IS)	Claims 9,66,67,69,76-84	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-84	YES
	Claims	NO
Citations and explanations (Rule 70.7)		

US 5 778 181 A discloses an integrated television programming system and corresponding internet information segments presenting system.

Claims 1-3, 10, and 19 of this patent document as well as the very similar US 5774664A show essentially the features of the applicant's claims 1,2,5-7,10-13,16,17,21,22,25,26,31,32,36,37,40,41,43,49,56,59,76-84 as these claims are formulated in a very generalizing manner.

Claims 1-16 of EP 724 669 disclose additionally the subject matter of the applicant's claims 66,67, and 69.

- 24 -

23. The apparatus according to claim 16, wherein said time-sequence data is provided via a network.

24. The apparatus according to claim 16, wherein said supplemental 5 information, action, or both, is provided remotely via a network.

25. The apparatus according to claim 16, wherein said supplemental information, action, or both, includes a displayed prompt with which a user can interact by user input.

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26. The apparatus according to claim 16, wherein said supplemental information, action, or both, includes a link to a remote location.

15 27. The apparatus according to claim 16, wherein said link is a universal resource locator (URL).

28. The apparatus according to claim 16, wherein said time-sequence data and said supplemental information, action, or both are linked by a link means.

20 29. The apparatus according to claim 16, wherein two or more of said link means, said time-sequence data, and said supplemental information, action, or both, are initially co-located at their source.

25 30. The apparatus according to claim 28, wherein two or more of said link means, said time-sequence data, and said supplemental information, action, or both, are initially remotely located at one or more source locations.

30 31. A computer program product having a computer readable medium having a computer program recorded therein for presenting supplemental information, action, or both, with time-sequence data, including:

means for providing time-sequence data;

- 25 -

means for separately providing supplemental information, action, or both, from said time-sequence data; and

means for linking said supplemental information, action, or both, with said time-sequence data during playback of said time-sequence data.

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32. The computer program product according to claim 31, wherein said supplemental information, action, or both, is linked with said time-sequence data by a start time and a stop time.

10

33. The computer program product according to claim 31, wherein said supplemental information, action, or both, is linked with said time-sequence data by annotation information associated with said time-sequence data.

15

34. The computer program product according to any one of claims 31 to 33, wherein said supplemental information, action, or both, is content-linked with said time sequence data.

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35. The computer program product according to claim 34, wherein said supplemental information, action, or both, is linked with said time-sequence data dependent upon on-the-fly analysis of the content of said time-sequence data during playback of said time-sequence data.

36. The computer program product according to claim 31, wherein said time-sequence data is animation, audio, and/or video data.

25

37. The computer program product according to claim 31, wherein said time-sequence data is provided by broadcast.

30

38. The computer program product according to claim 31, wherein said time-sequence data is provided via a network.

04 MAR 1999

- 26 -

39. The computer program product according to claim 31, wherein said supplemental information, action, or both, is provided remotely via a network.

40. The computer program product according to claim 31, wherein said supplemental information, action, or both, includes a displayed prompt with which a user can interact by user input.

41. The computer program product according to claim 31, wherein said supplemental information, action, or both, includes a link to a remote location.

10

42. The computer program product according to claim 31, wherein said link is a universal resource locator (URL).

43. The computer program product according to claim 31, wherein said time-sequence data and said supplemental information, action, or both are linked by a link means.

44. The computer program product according to claim 31, wherein two or more of said link means, said time-sequence data, and said supplemental information, action, or both, are initially co-located at their source.

45. The computer program product according to claim 44, wherein two or more of said link means, said time-sequence data, and said supplemental information, action, or both, are initially remotely located at one or more source locations.

25

46. A method of providing value-added content related to at least one of animation, audio, and video data, while said at least one of animation, audio, and video data is being presented to a user, including the steps of:

delivering said at least one of animation, audio, and video data for presentation to said user;

- 27 -

providing said value-added content being separate from said at least one of animation, audio and video data; and

providing linking means, separate from said at least one of animation, audio, and video data, for linking said value-added content with said at least one of

5 animation, audio, and video data in a controllable and on-the-fly manner prior to presentation of said at least one of animation, audio, and video data and said value-added content.

10 47. The method according to claim 46, further including the step of presenting for said user said at least one of animation, audio, and video data and said value-added content.

48. The method according to claim 46 or 47, wherein said value-added content is an advertisement.

15 49. The method according to claim 46, wherein said linking means includes a start time and a stop time of said value-added content in relation to said at least one of said animation, audio, and video data.

20 50. The method according to claim 46, wherein said linking means includes an annotation associated with said at least one of said animation, audio, and video data.

25 51. The method according to claim 46, wherein said value-added content includes a universal resource locator (URL).

52. The method according to claim 46, wherein said value-added content includes a set of instructions for performing operations on a local apparatus or a remote apparatus linked with said local apparatus by a network.

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53. The method according to claim 47, wherein said value-added content is presented separately in a device for reproducing said at least one of animation, audio and video data.

5 54. The method according to claim 47, wherein said value-added content is presented in or on said at least one of animation, audio and video data in a device for reproducing said at least one of animation, audio and video data.

10 55. The method according to claim 46, wherein said linking means is dependent upon the content said at least one of animation, audio, and video data.

56. An apparatus for providing value-added content related to at least one of animation, audio, and video data, while said at least one of animation, audio, and video data is being presented to a user, including:

15 means for delivering said at least one of animation, audio, and video data for presentation to said user;

means for providing said value-added content being separate from said at least one of animation, audio and video data; and

20 means for providing linking means, separate from said at least one of animation, audio, and video data, for linking said value-added content with said at least one of animation, audio, and video data in a controllable and on-the-fly manner prior to presentation of said at least one of animation, audio, and video data and said value-added content.

25 57. The apparatus according to claim 56, further including means for presenting to said user said at least one of animation, audio, and video data and said value-added content.

30 58. The apparatus according to claim 56 or 57, wherein said value-added content is an advertisement.

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59. The apparatus according to claim 56, wherein said linking means includes a start time and a stop time of said value-added content in relation to said at least one of said animation, audio, and video data.

5 60. The apparatus according to claim 56, wherein said linking means includes an annotation associated with said at least one of said animation, audio, and video data.

10 61. The apparatus according to claim 56, wherein said value-added content includes a universal resource locator (URL).

62. The apparatus according to claim 57, wherein said value-added content includes a set of instructions for performing operations on a local apparatus or a remote apparatus linked with said local apparatus by a network.

15 63. The apparatus according to claim 57, wherein said value-added content is presented separately in said means for representing said at least one of animation, audio and video data.

20 64. The apparatus according to claim 57, wherein said value-added content is presented in or on said at least one of animation, audio and video data in said means for reproducing said at least one of animation, audio and video data.

25 65. The apparatus according to claim 56, wherein said linking means is dependent upon the content said at least one of animation, audio, and video data.

30 66. A computer program product having a computer readable medium having a computer program recorded therein for providing value-added content related to at least one of animation, audio, and video data, while said at least one of animation, audio, and video data is being presented to a user, including:

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means for delivering said at least one of animation, audio, and video data for presentation to said user;

means for providing said value-added content being separate from said at least one of animation, audio and video data; and

5 means for providing linking means, separate from said at least one of animation, audio, and video data, for linking said value-added content with said at least one of animation, audio, and video data in a controllable and on-the-fly manner prior to presentation of said at least one of animation, audio, and video data and said value-added content.

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67. The computer program product according to claim 66, further including means for presenting to said user said at least one of animation, audio, and video data and said value-added content.

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68. The computer program product according to claim 66 or 67, wherein said value-added content is an advertisement.

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69. The computer program product according to claim 66, wherein said linking means includes a start time and a stop time of said value-added content in relation to said at least one of said animation, audio, and video data

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70. The computer program product according to claim 66, wherein said linking means includes an annotation associated with said at least one of said animation, audio, and video data.

71.

The computer program product according to claim 66, wherein said value-added content includes a universal resource locator (URL).

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72. The computer program product according to claim 66, wherein said value-added content includes a set of instructions for performing operations on a local

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computer program product or a remote computer program product linked with said local computer program product by a network.

73. The computer program product according to claim 67, wherein said  
5 value-added content is presented separately in said means for presenting said at least one of animation, audio and video data.

74. The computer program product according to claim 67, wherein said  
value-added content is presented in or on said at least one of animation, audio and  
10 video data in said means for reproducing said at least one of animation, audio and  
video data.

75. The computer program product according to claim 66, wherein said  
linking means is dependent upon the content said at least one of animation, audio, and  
15 video data.

76. A method of distributing advertisements with animation, audio and/or  
video data, said animation, audio and/or video data being delivered for presentation by  
way of broadcast or streaming over a network, said method including the steps of:  
20 delivering said animation, audio and/or video data for presentation;  
delivering a separate advertisement related to said animation, audio and/or  
video data;  
providing an advertisement control link for linking said separate advertisement  
with said animation, audio and/or video data; and  
25 presenting for a user said advertisement during presentation of said animation,  
audio and/or video data dependent upon said advertisement control link.

77. The method according to claim 76, wherein said advertisement is  
capable of connecting a user with a remote location via a network by user interaction  
30 with said advertisement.